

IAP13 Rec'd PCT/PTO 01 FEB 2007

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q76643

Fumio MATSUMOTO

Appln. No.: 10/564,734

Group Art Unit: 1722

Confirmation No.: 9627

Examiner: Unknown

Filed: January 17, 2006

For: InP SINGLE CRYSTAL GaA

InP SINGLE CRYSTAL, GaAs SINGLE CRYSTAL, AND METHOD FOR

PRODUCTION THEREOF

REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT AND CORRECTED NOTICE OF ACCEPTANCE

ATTN: Office of Initial Patent Examination

Filing Receipt Correction Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

We enclose a copy of the Official Filing Receipt and the Notice of Acceptance for the above-identified application and request the following corrections:

Assignment for Published Patent Application

SHOWA DENKO K.K.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/01055 010555 07/16/2004

Verification for the requested corrections is indicated on the Assignment and Declaration and Power of Attorney filed June 29, 2006.

Respectfully submitted,

SUGHRUE MION, PLLC

Telephone: (202) 293-7060

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WASHINGTON OFFICE

23373
CUSTOMER NUMBER

Date: February 1, 2007

Sheldon I. Landsman Registration No. 25,430



PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO. Box 1450

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Alexandria, Virginia 22313-1450
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 APPL NO.
 FILING OR 371 (c) DATE
 ART UNIT
 FIL FEE REC'D
 ATTY DOCKET NO
 DRAWINGS
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 IND CLMS

 10/564,734
 06/29/2006
 1722
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 Q76643
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CONFIRMATION NO. 9627

23373 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037

DOCKETED

JAN 1 0 2007

FILING RECEIPT

OC0000000021883977

Date Mailed: 01/08/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Fumio Matsumoto, Saitama, JAPAN;

ASSIGNMENT FOR PUBLISHED PATENT APPLICATION

Power of Attorney: The patent practitioners associated with Customer Number 23373.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/01055 07/16/2004

Foreign Applications

PCT/JP04/010555

JAPAN 2003-275987 07/17/2003 ·

If Required, Foreign Filing License Granted: 01/07/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US10/564,734

Projected Publication Date: 04/19/2007

Non-Publication Request: No

Early Publication Request: No



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office
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U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/564,734

Fumio Matsumoto

076643

INTERNATIONAL APPLICATION NO.

[PCT/JP04/01055] PCT/JP04/010559

I.A. FILING DATE

PRIORITY DATE

07/16/2004

07/17/2003

23373 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037

DOCKETED

LIAN 1 0 2007

CONFIRMATION NO. 9627 371 ACCEPTANCE LETTER *OC000000021883978*

Date Mailed: 01/08/2007

NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

06/29/2006

06/29/2006

DATE OF RECEIPT OF 35 U.S.C. 371(c)(1), (c)(2) and (c)(4) REQUIREMENTS

DATE OF COMPLETION OF ALL 35 U.S.C. 371 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. THE DATE APPEARING ON THE FILING RECEIPT AS THE "FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE. The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Copy of the International Application filed on 01/17/2006
- English Translation of the IA filed on 01/17/2006
- Copy of the International Search Report filed on 01/17/2006
- Copy of IPE Report filed on 01/17/2006
- Preliminary Amendments filed on 01/17/2006
- Information Disclosure Statements filed on 01/17/2006
- Oath or Declaration filed on 06/29/2006
- Request for Immediate Examination filed on 01/17/2006
- U.S. Basic National Fees filed on 01/17/2006
- Priority Documents filed on 01/17/2006

ASSIGNMENT

Whereas, I/we

Fumio MATSUMOTO

of c/o SHOWA DENKO K.K.
1505, Shimokagemori, Chichibu-shi, Saitama 369-1871, JAPAN

hereinafter called assignor(s), have invented certain improvements in

InP SINGLE CRYSTAL, GaAs SINGLE CRYSTAL, AND METHOD FOR PRODUCTION THEREOF

and executed an application for Letters Patent of the United States of America therefor on

February 14, 2006; and

Whereas, SHOWA DENKO K.K. of 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518, JAPAN

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date: February 14, 2006 s/ Fumio Matsumoto

Fumio MATSUMOTO I

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Declaration and Power of Attorney for Patent Application



特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する。	As a below named inventor, I hereby declare that:
私の住所、郵便の宛先及び国籍は、私の氏名の後に記載された通りである。	My residence, post office address and citizenship are as stated next to my name,
下記の名称の発明について、特許請求範囲に記載され、且 つ特許が求められている発明主題に関して、私は、最初、最先 且つ唯一の発明者である(唯一の氏名が記載されている場合) か、或いは最初、最先且つ共同発明者である(複数の氏名が記 載されている場合)と信じている。	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
	InP SINGLE CRYSTAL, GaAs SINGLE CRYSTAL, AND METHOD FOR PRODUCTION THEREOF
上記発明の明細書はここに添付されているが、下記の欄がX 印でチェックされている場合は、この限りでない:	the specification of which is attached hereto unless the following box is checked:
□月 _ 日に出願され、	
この出願の米国出願番号またはPCT国際出願番号は、	as United States Application Number or PCT International Application Number
であり、且つ	PCT/JP2004/010555 and was amended on
月日に補正された出願(該当する場合)	(if applicable).
私は、上記の補正費によって補正された特許請求範囲を含む上記明細費を検討し、且つ内容を理解していることをここに表明する。	I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
私は、連邦規則法典第37編1.56に定義されている特許性に ついて重要な情報を開示する義務があることを認める。	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Japanese Language Declaration

(日本語宣言書)

私は、ここに、下記に記載した外国での特許出願または発明者証の出願、或いは米国以外の少なくとも一カ国を指定している米国法典第35編365条(a)項によるPCT国際出願について、同第119条(a)-(d)項又は第365条(b)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日よりも前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる出願も、下記の枠内をチェックすることにより示した。

I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Applications 外国での先行出顔			Priority Not Claimed 優先権主張なし
_2003-275987	JAPAN	17 / July / 2003	
(Number) (番 号)	(Country) (囯名)	(Day/Month/Year Filed) (出願日/月/年)	_
(Number)	(Country)	(Day Black Nove Filed)	🗆
(Mumber) (番号)	(Country) (国名)	(Day/Month/Year Filed) (出願日/月/年)	
(Number)	(Country)	(Day/Month/Year Filed)	_ 🗆
(番号)	(国名)	(出願日/月/年)	
私は、ここに、下記のいかなる米国 典第35編119条(e)項の利益を主張・	仮特許出願についても、その米国法 する。	· ·	er Title 35, United States Code, States provisional application(s)
(Anglian Alam Alam Alam Alam Alam Alam Alam Alam		60/489,494	24 / July / 2003
(Application No.) (出願番号)	(Filing Date) (出願日)	(Application No.) (出願番号)	(Filing Date) (出願日)
	米国出願についても、その米国		e 35, United States Code Section
法典第35編第120条に基づく利			ication(s), or 365(c) of any PCT
るいかなるPCT国際出願につい			nating the United States, listed
く利益を主張する。また、本出。 が、米国法典第35編第112条第		•	ct matter of each of the claims of
する米国出願またはPCT国際出		• •	in the prior United States or PCT
いては、その先行出願の出願目		• •	e manner provided by the first d States Code Section 112, I
際出願日との間の期間中に入り	手された情報で、連邦規則法典		e any material information which is
第37編規則1.56に定義された特		•	ned in Title 37, Code of Federal
いて開示義務があることを承認す	⁻ る。	•	h became available between the
			ation and the national or PCT
		International filing date of this an	plication [,]

私は、ここに表明された私自身の知識にかかわる陳述が真実であり、且つ情報と信ずることに基づく陳述が、真実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、もしくはその両方により処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題が生ずることを理解した上で、陳述が行われたことを、ここに宣言する。

(Filing Date)

(出願日)

(Filing Date)

(出願日)

(Application No.)

(出願番号)

(Application No.)

(出願番号)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(Status: Patented, Pending, Abandoned)

(現況: 特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned)

(現況: 特許許可済、係属中、放棄済)

Japanese Language Declaration

(日本語宣言書)

委任状: 私は、本出願を審査する手続きを行い、且つ米国特 許商標庁との全ての業務を遂行するために、記名された発明者 として、下記の弁護士及び/または弁理士を任命する。(氏名及 び登録番号を記載すること)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

John H. Mion, Reg. No. 18,879; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603; George F. Lehnigk, Reg. No. 36,359; John T. Callahan, Reg. No. 32,607; Steven M. Gruskin, Reg. No. 36,818; Peter A. McKenna, Reg. 38,551 and Edward F. Kenehan, Jr., Reg. 28,962

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Send Correspondence to:

SUGHRUE MION, PLLC

2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213

直通電話連絡先: (名称及び電話番号)

Direct Telephone Calls to: (name and telephone number)

(202)293-7060

Full name of sole or first inve	ntor			
唯一又は第一発明者名	Fumio MATSUMOTO			
Inventor's signature		Date		
発明者の署名	Fumio Matsumoto	^{頁付} February 14, 2006		
Residence	•			
住所	Chichibu-shi, Saitama J	Chichibu-shi, Saitama JAPAN		
Citizenship	***************************************			
国籍	JAPAN			
Post office address				
郵便の宛先	c/o SHOWA DENKO K.K. 1505, Shimokagemori, Chichibu	u-shi, Saitama 369-1871, JAPAN		
Full name of second joint inv	entor, if any			
第二共同発明者名(該当する				
Second inventor's signature		Date		
第二発明者の署名	日付			
Residence				
住所				
Citizenship				
国籍				
Post office address				
郵便の宛先				

(第三以降の共同発明者についても同様に記載し、署名をするこ ٤,)

(Supply similar information and signature for third and subsequent joint inventors.)